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BOTANY.

A University Text-Book of Botany.¹—Botany as taught to-day differs from the same subject as taught when many of the older teachers of to-day were students, more in its many-sidedness than in any other respect,—a result largely due to the publication and use of Sachs' text-book in the seventies, and of the translations, adaptations, and abridgments of that book that quickly followed its appearance. Since then numerous and in some cases excellent laboratory and reference books, prepared for elementary class or laboratory use or for students of special branches of the science, have been brought out, but no distinctly original comprehensive book of large size has appeared from an American author before this work by Professor Campbell.

In his preface the author clearly states his purpose to have been the preparation of a reference book, and not a laboratory manual, presenting in as compact a form as possible an outline of the essentials of modern botany and drawing its illustrations as far as possible from American material. A large part of the figures are original; and while, of necessity, anything like full references to the enormous literature of even the last few years have been impossible, each subject is provided with a short bibliography, opening the way to other references.

The book consists of fifteen chapters, headed: Introduction, The Plant Body, The Plant Cell, Classification, The Algæ, Fungi, The Archegoniata, Pteridophyta (two chapters), Spermatophyta (three chapters), Physiology, Relation to Environment, and Geological and Geographical Distribution. The treatment is interesting and direct, yet conservative in debatable matters, and half-tone plates scattered through the text, representing types of vegetation and plant societies, add much to the effectiveness of the ample illustration. W. T.

The Cyclopedia of American Horticulture.²—In the summer of 1900 the first volume of this large and comprehensive work was put

¹ Campbell, D. H. *A University Text-Book of Botany*. New York, The Macmillan Company, 1902. xv + 579 pp., 15 pls., 493 figs.

² Bailey, L. H., and Miller, W. *Cyclopedia of American Horticulture*. Comprising suggestions for cultivation of horticultural plants, descriptions of the species of fruits, vegetables, flowers, and ornamental plants sold in the United States and Canada, together with geographical and biographical sketches. Illustrated with over 2000 original engravings. In four volumes. New York, The Macmillan Company, 1900-1902. \$20.

in the hands of subscribers, and the early spring of 1902 sees the concluding volume in print. What has been said earlier in the *Naturalist* about the quality of the first three volumes applies equally well to the one now issued. Whether the work be consulted by the gardener for cultural methods, by the amateur for the names of cultivated plants, or by the schoolmaster for information as to the horticultural resources and possibilities of a given state or territory, it will be found to offer a ready answer to most questions and to indicate how the more obscure ones may be answered by one having the patience to follow them up. Throughout the *Cyclopedia* the personality of its editor is manifest, although very many of the articles have been written by others; and perhaps the most interesting reading in it is the introduction to the fourth volume, in which, from his own pen, we learn how the work was conceived, planned, and executed. The *Cyclopedia* is a notable piece of book making, and it is gratifying to know that the editor hopes, by means of annual supplements, to round it out with analytical keys for the determination of genera, — which in the body of the work are alphabetically arranged, — an extended bibliography, and the current chronicles of horticultural change.

W. T.

Notes. — In the *Ottawa Naturalist* for April Professor Greene describes five new species of *Ranunculus*, from various parts of the United States and Canada.

In the *Botanical Gazette* for February Professor Sargent publishes a fourth paper on "New or Little-Known North American Trees," among which are several notable species of *Cratægus* and one of *Prunus*.

Prunus virginiana and *P. serotina*, as cultivated in France, are contrasted by Guinier in Nos. 1–2 of the current volume of the *Bulletin de la Société Botanique de France*.

The Lespedezas of Missouri are reviewed by Mackenzie and Bush in No. 2 of the current volume of *Transactions of the Academy of Science* of St. Louis.

Lieferungen 4, 5 of Schumann's "Blühende Kakteen" have appeared.

A voluminous study of *Cirsium arvense*, by Lund and Rostrup, with French abstract, has been published as Vol. X, No. 3, of the *Mémoires de l'Académie Royale des Sciences et des Lettres de Danemark*.